SOUTH COAST AIR QUALITY MANAGEMENT DISTRICT

ENGINEERING DIVISION

DATE: July 19, 1988
TO: Combustion Unit Engineers
FROM: Martin L. Kay, Supervising A.Q. Engineer /s/ MLK
SUBJECT: Permit Unit Description and Requirements for a Chemical Cleaning Line

With the adoption of the amendments to Rule 219 on June 3, 1988 tanks using nitric, sulfuric, or hydrochloric acids used for surface preparation are no longer exempt from written permits.

Past policy was to have each individual preparation tank issued a permit. IN the case that will be discussed a chemical cleaning line having integrated three-tank modules linked up to have 12 process tanks including rinse tanks and etch tanks using nitric, sulfuric, hydrochloric, nickel sulfate etc., will be described as one permit unit with each tank mentioned in the permit unit description.

The reasoning is that the tanks in this system cannot easily be separated from the other tanks. The modules are all linked up to the same water, electrical, and ventilation system lines.

Please see the attachment as an example of this type of equipement.

Chemical Metal Cleaning Line Consisting of:

1. Cleaning Tank, Tank No. T-1, Caustic, 2’-0” W. x 2’-0” L. x 2’-6” D., Inside Tank Dimensions, with a 5 KW Electric Heater.

2. Two Rinse Tanks, Tanks, No.s T-2 & T-4, Hot Water Rinse, Each 2’-0” W. x 2’-0” L. x 2’-6” D., Inside Tank Dimensions, each with two 3 KW Electric Heaters.

3. Electro-Cleaning Tank, Tank No. T-3 Caustic, 2’-0” W. x 2’-0” L. x 2’-6” D., Inside Dimensions, with a 5 KW Electric Heater, and a 1.5 KVA Rectifier.

4. Two, Etch Tanks, No.s T-5 & T-6, Phosphoric Acid, Each 2’-0” W. x 2’-2” L. x 2’-6” D., inside tank dimensions, each with a 5 KW electric heater.

5. Rinse Tanks, Tank No.s T-7 & T-9, Cold Water Rinse, Each 2’-0” W. x 2’-0” L. x 2’-6” D., inside tank dimensions.

6. Two Mild Etch Tanks, Tank No.s T-8 & T-10, Phosphoric Acid, Each 2’-0” W. x 2’-2” L. x 2’-6” D., inside tank dimensions, each with a 5 KW electric heater.

7. Rinse Tank, Tank No. T-11, Warm Deionized Water Rinse, 1’-0” W. x 2’-2” L. x 2’-6” D., inside tank dimensions.

8. Final Rinse Tank, Tank No. T-12, Warm Deionized Water Rinse, 1’-0” W. x 2’-2” L. x 2’-6” D., inside tank dimensions, with a 3 KW electric heater.

The conventional process tanks process tanks with individual slot vented hooding systems will still be required to have separate permits, since each tank will be considered a separate permit unit.

AYL:R219
cc: Rule 219 Unit
Bob Hilovsky, Colton